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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 701586-052823 |
| INTERNATIONAL APPLICATION NO. PCT/US2003/30701 | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 107529524 To be assigned |
| INTERNATIONAL FILING DATE 30 September 2003 (30.09.2003) | | PRIORITY DATE CLAIMED 30 September 2002 (30.09.2002) |
| TITLE OF INVENTION METHOD OF TREATING CANCER USING ADENOSINE AND ITS ANALOGS | | |
| APPLICANT(S) FOR DO/EO/US THE TRUSTEES OF BOSTON UNIVERSITY; RAVID, Katya, LU, Jun | | |

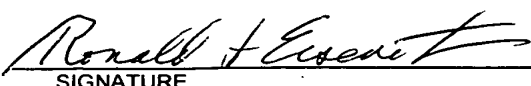
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: Exp. Mail Cert. EL 94812229US, PCT Forms 210, 304, 308 and Return Receipt Postcard.

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) To be assigned 10/529524 | | INTERNATIONAL APPLICATION NO. PCT/US2003/30701 | | ATTORNEY'S DOCKET NUMBER 701586-052823 | |
| The following fees have been submitted | | | | CALCULATIONS PTO USE ONLY | |
| 21. <input checked="" type="checkbox"/> Basic national fee..... \$300 | | | | \$ 300.00 | |
| 22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100 All other situations..... \$200 | | | | \$ 200.00 | |
| 23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared and provided to the Office..... \$400 All other situations..... \$500 | | | | \$ 100.00 | |
| TOTAL OF 21, 22 and 23 = | | | | \$ 600.00 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | |
| - 100 = | /50 = | | x \$250 | \$ 0.00 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). | | | | \$ 0.00 | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
| Total claims | 28 - 20 = | 8 | x \$ 50 | \$ 400.00 | |
| Independent claims | 5 - 3 = | 2 | x \$200 | \$ 400.00 | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360 | | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 700.00 | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | | |
| SUBTOTAL = | | | | \$ 700.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | \$ 0.00 | |
| TOTAL NATIONAL FEE = | | | | \$ 700.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | \$ 0.00 | |
| TOTAL FEES ENCLOSED = | | | | \$ 700.00 | |
| | | | | Amount to be refunded: | \$ |
| | | | | Amount to be charged: | \$ |
| <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>50-0850</u> in the amount of \$ <u>700.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-0850</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> | | | | | |
| <p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p> | | | | | |
| <p>SEND ALL CORRESPONDENCE TO: Ronald I Eisenstein NIXON PEABODY LLP 100 Summer Street Boston, MA 02110 US</p> | | | <p style="text-align: center;"> SIGNATURE Ronald I Eisenstein NAME <u>30.628</u> REGISTRATION NUMBER</p> | | |

Practitioner's Docket No. 701586-052823-US

PATENT

IN THE UNITED STATES RECEIVING OFFICE

| International Application Number | International Filing Date | International Earliest Priority Date |
|-------------------------------------|-----------------------------------|---|
| PCT/US2003/30701 | 30 September 2003 (30.09.2003) | 30 September 2002 (30.09.2002) |

TITLE OF INVENTION: **METHODS OF TREATING CANCER USING
ADENOSINE AND ITS ANALOGS**

APPLICANT(S) FOR EO/DO: The Trustees of Boston University
INVENTOR(S)/APPLICANT(S) FOR US: RAVID, Katya and LU, Jun

**VERIFIED CERTIFICATION OF EXPRESS MAILING DATE
(INTERNATIONAL APPLICATION (37 C.F.R. section 1.10(c)))**

I declare that, on March 21, 2005 I deposited, with the United States Postal Service, in an envelope "Express Mail, Post Office to Addressee," bearing Label Number EL 948122229 US, addressed to the "MAIL STOP PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450," and having an express mail certification that I executed, the following papers:

1. Express Mail Certificate EL 948122229 US (1 pg.);
2. Transmittal Letter to the U.S. Receiving Office Concerning a Filing Under 35 U.S.C. 371 including duplicate page 2 (3 pp.);
3. Application Data Sheet (3 pp.);
4. Preliminary Amendment (5 pp.);
5. Form PCT/IB/308 (1 pg.);
6. Published WO 2004/030621 A2 (coversheet, 1 pg.);
7. PCT/IB/Form 304 (1 pg.);
8. International Search Report - Form PCT/ISA/210 (5 pp.);
9. Information Disclosure Statement, including Form 1449 (4 pp.);
10. COPY - citations A1-A3 cited in Information Disclosure Statement; and
11. Return Receipt Postcard.

A copy of these papers from the file of this application is attached.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application of any patent issuing thereon.

Date: March 21 2005



Debra J. Kellom

(type or print name of person certifying)

Mailing Date: March 29, 2005

Attorney/Sec: RIE/LHX/djk

Client: BU

Docket No.: 701586-53823-US

Inventors: REVISED

Serial No.: TO

US02/000,000 PCT/PTC

29 MAR 2005

Filing Date: Herewith

Grant Date:

10/529524

The dating stamp of the Patent and Trademark Office hereon will be taken as the date of filing of:

1. Express Mail Certificate EL 948122229 US (1 pg.);
2. Transmittal Letter to the U.S. Receiving Office Concerning a Filing Under 35 U.S.C. 371 including duplicate page 2/3 (3 pp.);
3. Application Data Sheet (3 pp.);
4. Preliminary Amendment (5 pp.);
5. Form PCT/IB/308 (1 pg.);
6. Published WO 2004/030621 A2 (coversheet, 1 pg.);
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9. Information Disclosure Statement, including Form 1449 (4 pp.);
10. COPY - citations A1-A3 cited in Information Disclosure Statement; and
11. Return Receipt Postcard.

Due Date: